## INTERNATIONAL SEARCH REPORT

NL2004/000732

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E01B19/00 E01B5/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (dassification system followed by classification symbols) IPC 7 E01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	DATABASE WPI Section PQ, Week 200145 Derwent Publications Ltd., London, GB; Class Q41, AN 2001-422705 XP002314122 -& JP 2001 140201 A (ZH TETSUDO SOGO GIJUTSU KENKYUSHO) 22 May 2001 (2001-05-22) abstract	1,6,7,9, 11-16		
X A	DE 262 330 C (ERLAND ZEIL) 10 July 1913 (1913-07-10) claim 1; figures 1-6	1,2,6 9		
X	US 1 546 753 A (RUGGIERO ANGELO F) 21 July 1925 (1925-07-21) claim 1; figures 1,3	1,3,7		

Y Further documents are listed in the continuation of box C.	Patent family members are tisted in annex.	
Special categories of cited documents:  A' document defining the general state of the art which is not considered to be of particular relevance  E' earlier document but published on or after the international filing date  L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O' document referring to an oral disclosure, use, exhibition or other means  P' document published prior to the international filing date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention.</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone.</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>	
Date of the actual completion of the international search  19 January 2005	Date of mailing of the international search report  31/01/2005	
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Filjswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  De Neef, K	

## INTERNATIONAL SEARCH REPORT

T/NL2004/000732

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT					
Category ° C	itation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
(	DE 140 056 C (ERNST SCHLEGEL) 8 April 1903 (1903-04-08) figures 1,2	1			
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## INTERNATIONAL SEARCH REPORT

Information on patent family members

FCT/NL2004/000732

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2001140201	Α	22-05-2001	NONE	
DE 262330	С		NONE	
US 1546753	Α	21-07-1925	NONE	
DE 140056	С		NONE	